

Improvements in the weaving of quilts, counterpanes, bedspreads and similar articles

Patent number: GB151208

Publication date: 1920-09-23

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Classification:

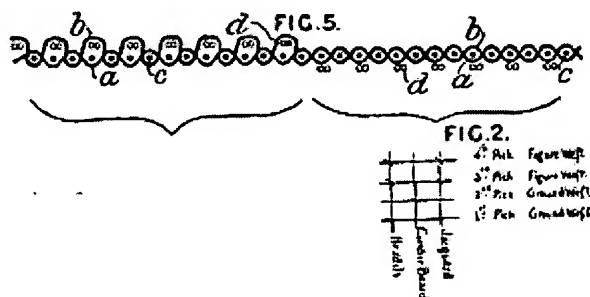
- international:

- european: D03D11/00

Application number: GB19200005480 19200224

Priority number(s): GB19200005480 19200224

Abstract not available for GB151208



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PATENT SPECIFICATION



Application Date : Feb. 24, 1920. No. 5480 / 20.

151,208

Complete Left : Apr. 8, 1920.

Complete Accepted : Sept. 23, 1920.

PROVISIONAL SPECIFICATION.

Improvements in the Weaving of Quilts, Counterpanes, Bedspreads and similar Articles.

We, WILLIAM HOLT AND SONS (WALSHAW) LIMITED, of Victoria Mills, Walshaw, Bury, County of Lancaster, Cotton Manufacturers, and FRANCIS HOLT, and JOHN WILLIAM HOLT, Directors with the said Company, do hereby declare the nature of this invention to be as follows:—

This invention relates to the manufacture of quilts, counterpanes, bedspreads, and similar articles in which imitation embroidered figures or patterns are woven on a plain or fine ribbed cloth.

It consists in weaving simultaneously in the same ground fabric from two beams or sets of warps under different tension—one set operated by a jacquard and the other set by healds—and two wefts one for the ground and the other for the figures or patterns.

In carrying out the invention two sets of warps are employed the threads of one set being drawn through the mails of jacquard harness and the threads of the other set through healds. Two wefts are also employed one to be known as the ground weft and the other as the figure weft.

The ground weft interlaces with the warp or warps to form the ground work of the cloth and the figure weft is interlaced in the cloth to form the figure only and where not necessary for the figuring or pattern is thrown loose or floated either to the back or face of the cloth preferably to the back.

Two picks of the ground weft are thrown into the cloth to form the ground cloth and then one or two picks of the

figure weft are thrown into the cloth to form the figure; two picks are preferable as otherwise a pick and pick loom would be required with a double box at each end of the loom.

After the cloth is woven it is passed through a machine which cuts off all the loose floating threads and leaves in the cloth only that portion of the figuring weft which is bound in the ground cloth to form the figure.

By using two warps one more heavily weighted than the other the figure is made to stand up slightly on the face of the cloth, and a fine ribbed effect is given to the ground cloth. More equal weighting of the beams, or using one beam only gives the plain ground cloth.

The mounting coming from the jacquard machine is knotted above the comber board, so that when the comber board lifts it is just equal to every hook in the jacquard lifting but by this method of lifting a great saving in wear and tear and jacquard cards is obtained. The jacquard is down for two picks and lifted for two picks.

It is preferred to employ two warp beams differently weighted but a cloth with a plain ground may be made cheaply by using one beam and drawing alternate ends through jacquard harness and healds.

Dated this 23rd day of February, 1920.

J. OWDEN O'BRIEN,
Successor to and late of W. P. Thompson & Co., of Manchester,
Patent Agent.

[Price 1/-]

COMPLETE SPECIFICATION.

Improvements in the Weaving of Quilts, Counterpanes, Bedspreads and similar Articles.

We, WILLIAM HOLT AND SONS (WALSHAW) LIMITED, of Victoria Mills, Walshaw, Bury, County of Lancaster, Cotton Manufacturers, and THOMAS HOLT, and JOHN WILLIAM HOLT, Directors with the said Company, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to the manufacture of quilts, counterpanes, bedspreads, and similar articles in which imitation embroidered figures or patterns are woven by two warps and a ground weft and figuring weft, the floated remainder of the figuring weft on the reverse side being cut away.

It has been proposed in weaving certain classes of figured cloth to operate the warps by both jacquard and healds.

This invention consists in weaving simultaneously in the same ground fabric from two beams or sets of warps under different tension—one set operated by a jacquard and the other set by healds—and two wefts one for the ground and the other for the figures or patterns, a greater tension being applied to the jacquard controlled warp.

The invention will be fully described with reference to the accompanying drawings.

Fig. 1. Drawing in plan or draft.

Fig. 2. Lifting plan.

Fig. 3. Transverse section of cloth where two ground picks have been put in, 1st and 2nd picks, Fig. 2.

Fig. 4. Transverse section of cloth where the 3rd pick Fig. 2 has been inserted.

Fig. 5. Longitudinal section of cloth.

In weaving the cloth two sets of warps *a* and *b* are employed, the warp threads *a* being drawn through the mails of jacquard harness and the warp threads *b* through the eyes of healds. Two weft threads *c* and *d* are also employed, *c* being a ground weft and *d* a figure weft.

The two warps *a* and *b* are wound upon separate beams the warp *a* being operated by the jacquard and the warp *b* by the healds and a greater tension being applied

to the jacquard warp *a* thereby having a firmer grip upon the figuring weft *d* preventing its withdrawal by the clipping or shearing machine.

The warp threads from each set of beams may be of different counts, if the warp threads passing through the healds are finest, then the figure weft will show up more prominently on the face side of the cloth.

The ground weft *c* interlaces with the jacquard warp *a* and heald warp *b* to form the ground work of the cloth as in Fig. 3 which shows a section where two ground picks have been inserted and the figure weft *d* is interlaced in the cloth to form the figure only and where not necessary for the figuring or pattern is thrown loose or floated either to the back or face of the cloth preferably to the back as in Fig. 4 which shows a section where the figure weft *d* has been inserted the 3rd pick of plan Fig. 2 A and B show the figure portion and C the portion of the figure weft *d* which has to be cut off.

In Fig. 5 A represents the figure portion of the cloth and B represents the ground portion or where no figure is.

Two picks of the ground weft *c* are thrown into the cloth to form the ground cloth and then one or two picks of the figure weft *d* are thrown into the cloth to form the figure. Two picks are preferable as otherwise a pick and pick loom would be required with a double box at each end of the loom.

After the cloth is woven it is passed through a clipping or shearing machine which cuts off all the loose floating threads and leaves in the cloth only that portion of the figuring weft *d* which is bound in the ground cloth to form the figure.

By using two warps one more heavily weighted than the other the figure is made to stand up slightly on the face of the cloth, and a fine ribbed effect is given to the ground cloth.

In the lifting plan shown in Fig. 2, the mounting coming from the jacquard machine is knotted above the comber board, so that when the comber board lifts it is just equal to every hook in the jacquard lifting but by this method of

lifting a great saving in wear and tear and jacquard cards is obtained. The jacquard is down for two picks and lifted for two picks.

5 Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

0 1. The method of weaving quilts, counterpanes, bedspreads and similar articles comprising two sets of warps one operated by a jacquard harness and the other by healds, that operated by the

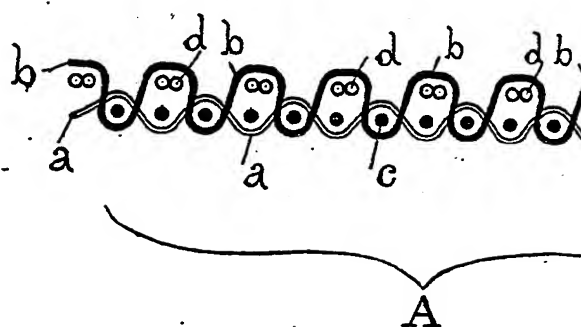
jacquard being at a greater tension than 15 the other, and two wefts, a ground weft and a figure weft, the latter being loose and cut away where no figure is formed substantially as described.

2. A quilt, counterpane, bedspread or 20 similar article woven, substantially as described and shown.

Dated this 25th day of March, 1920.

J. OWDEN O'BRIEN,
Successor to and late of W. P. Thompson 25
& Co., of Manchester,
Patent Agent.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1920



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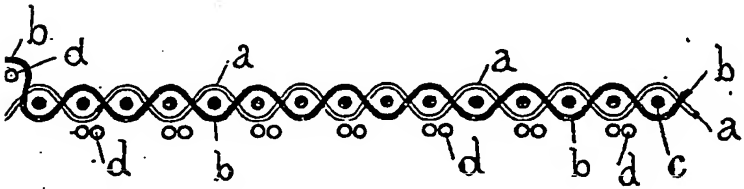
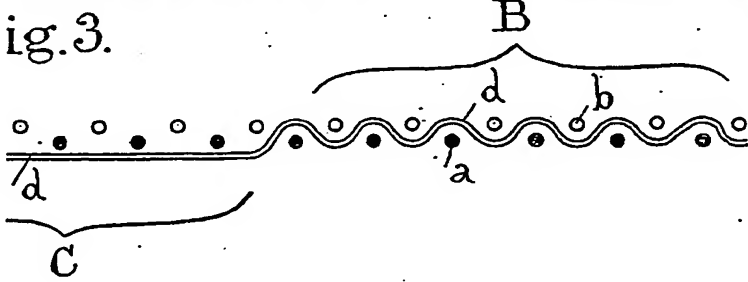
Jacqua
Healds

b	a	a
Healds.	Comber Board	Jacquard.

4th Pic
3rd Pic
2nd Pic
1st Pic



ig.3.



ig.5.

ning

Fig.1.

are Weft. d
are Weft. d
und Weft. C
und Weft. C

ig.2.

1

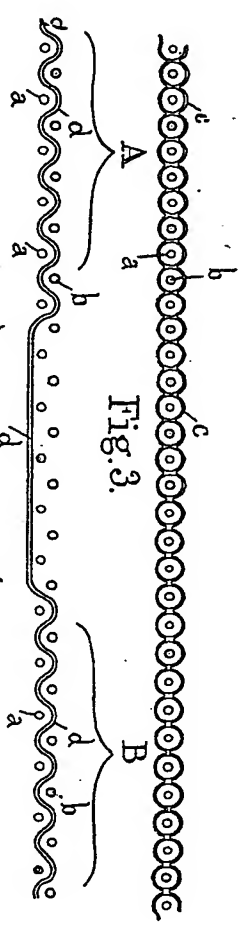


Fig. 3.

Fig. 4.

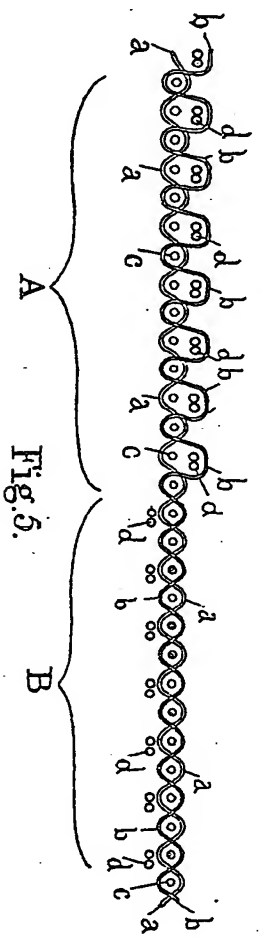
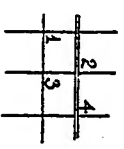
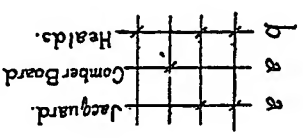


Fig. 5.



Jacquard Mounting
Heads.
Fig. 1.



4th Pick Figure Weft. d
3rd Pick. Figure Weft. d
2nd Pick. Ground Weft. c
1st Pick. Ground Weft. c
Fig. 2.